

## Press Release

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### Good Shepherd Communities Announces Innovations for Communities' Health and Well Being

*Good Shepherd Fairview Home in Binghamton, Good Shepherd Village at Endwell and Chase Memorial Nursing Home in New Berlin each invest in LytBot and Photohydroionization Air Purification Systems – new, highly innovative lines of defense and attack against pathogens.*

All three of Good Shepherd Communities' campuses have purchased and received a LytBot. This is a significant investment of over \$60,000 across their facilities over a three-year period, as Good Shepherd is committed to exploring innovative ways to protect its staff and residents.



LytBot is a robot that uses pulsed Broad-Wavelength with Ultraviolet C (UVC) Light which can eliminate pathogens in seconds. The robot runs ultra-fast cycles, quickly and reliably targeting surface based pathogen load reducing the risk of infection spread. A single resident room, including the bathroom, can be disinfected in 15 minutes.

Targeted Disinfection: 80% or more of pathogen load in a room resides on "high touch" surfaces. LytBot's engineered reflector system amplifies energy levels directed at these surfaces – meaning more energy and more efficacy.

Pulsed UV uses two distinct mechanisms to kill pathogens: 254 nm Germicidal UV-C light and Micro-organism disintegration.

- Maxpulse: High-frequency bulb flash rate delivers disinfection energy into the environment quickly and effectively, rapidly destroying vegetative and spore forming pathogens.
- Micro-organism disintegration: This is caused by using all bands of light from 100 nm to 1000 nm. These bands of light are made up of billions of high-energy photons of light.

The high-energy photons of light blast pathogen cells and are absorbed. As high-energy photons are absorbed by the pathogen, heat rises and the cell starts to expand.

Eventually the heat causes the cell to expand so much that the micro-organism explodes.

Solaris, the manufacturer, has trained key employees at each facility on how to use these new high-tech systems, and Good Shepherd has recently begun using them in its adult care and nursing home facilities.

### **Air Purification Systems**

Good Shepherd Communities is installing new Photohydroionization Air Purification Systems into the heating, ventilation and air-conditioning (HVAC) units on all three of its campuses to help fight against COVID-19. This system utilizes ultraviolet lighting enhanced by a hydrated quad-metallic compound target which develops an advanced oxidation reaction that creates hydro-peroxides, super oxide ions and hydroxides.

Good Shepherd Fairview Home in Binghamton, Good Shepherd Village at Endwell and Chase Memorial Nursing Home in New Berlin are building the UV-lighting systems into the HVAC control boxes in common areas to kill or stop the spread of COVID-19 and a range of other dangerous bacteria and viruses, from MRSA to E. coli.

In addition to protecting residents and employees from contracting COVID-19, the UV-lighting system further improves air quality throughout the buildings using this technology, which is designed to reduce odors, air pollutants, VOC (chemical odors), smoke, mold, bacteria and viruses.

### **About Good Shepherd Communities:**

Good Shepherd Fairview Home at Binghamton has offered housing and health care services for 150 years to its seniors. Good Shepherd Fairview is a not-for-profit residential healthcare community that offers various levels of care to accommodate individual needs.

Good Shepherd Village at Endwell, built in 2009, is a Continuing Care Retirement Community (CCRC) that provides residential living, skilled care, assisted living, companion services, and therapy services.

Chase Memorial Nursing Home & Rehab, in New Berlin, was acquired by Good Shepherd Communities in 2017 and serves seniors in Chenango and Otsego Counties.

Good Shepherd Communities Foundation, a not-for-profit charitable corporation, was established in 1986. It promotes the benefits of charitable giving and provides financial and other support for its parent organization, Good Shepherd Communities, and its three campuses.

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